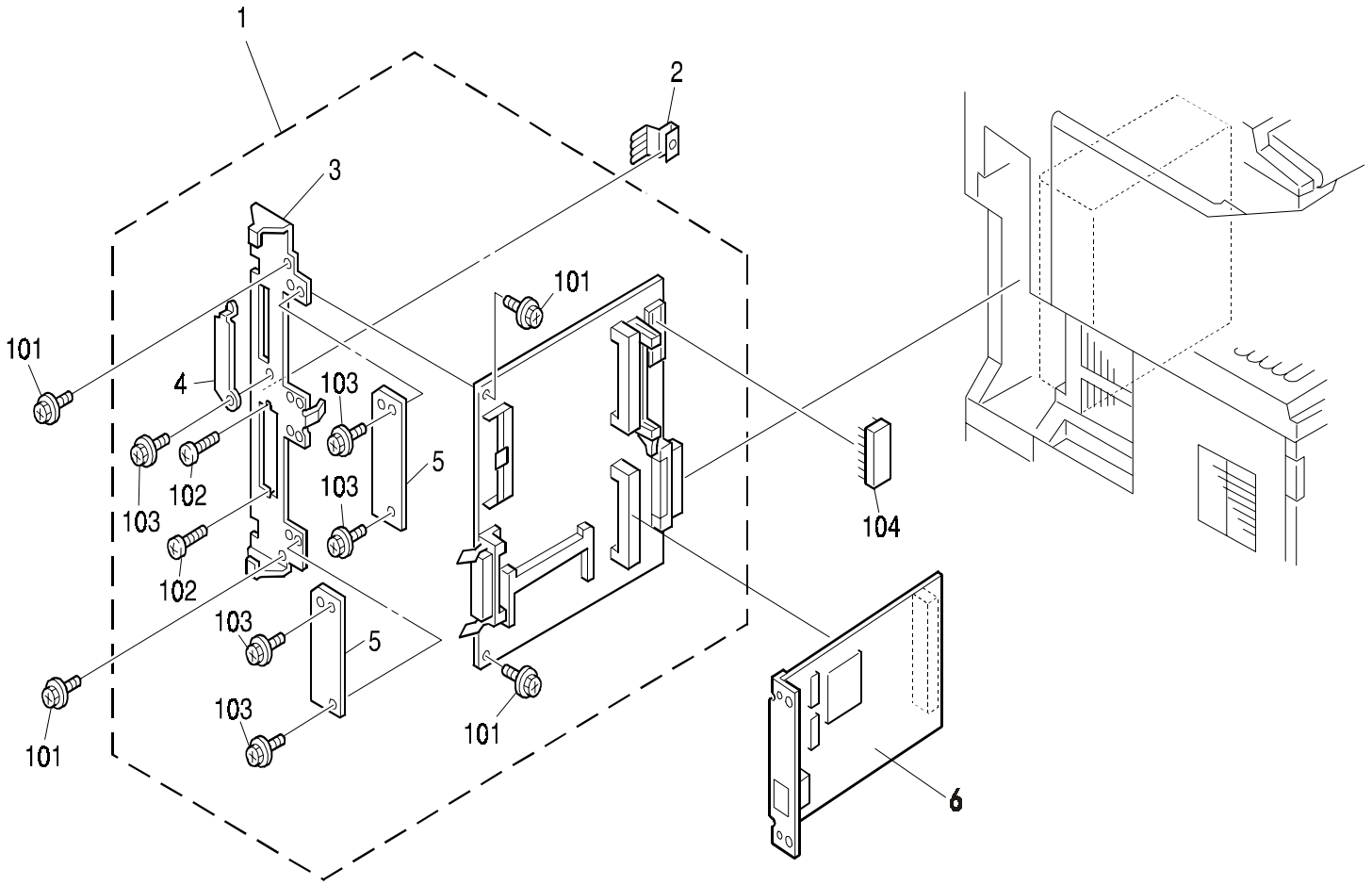
PRINTER OPTION B306/G690
PARTS LOCATION AND LIST

This section instructs you as to the number and names of parts on this machine.

1. PRINTER CONTROL UNIT 1 (B306)



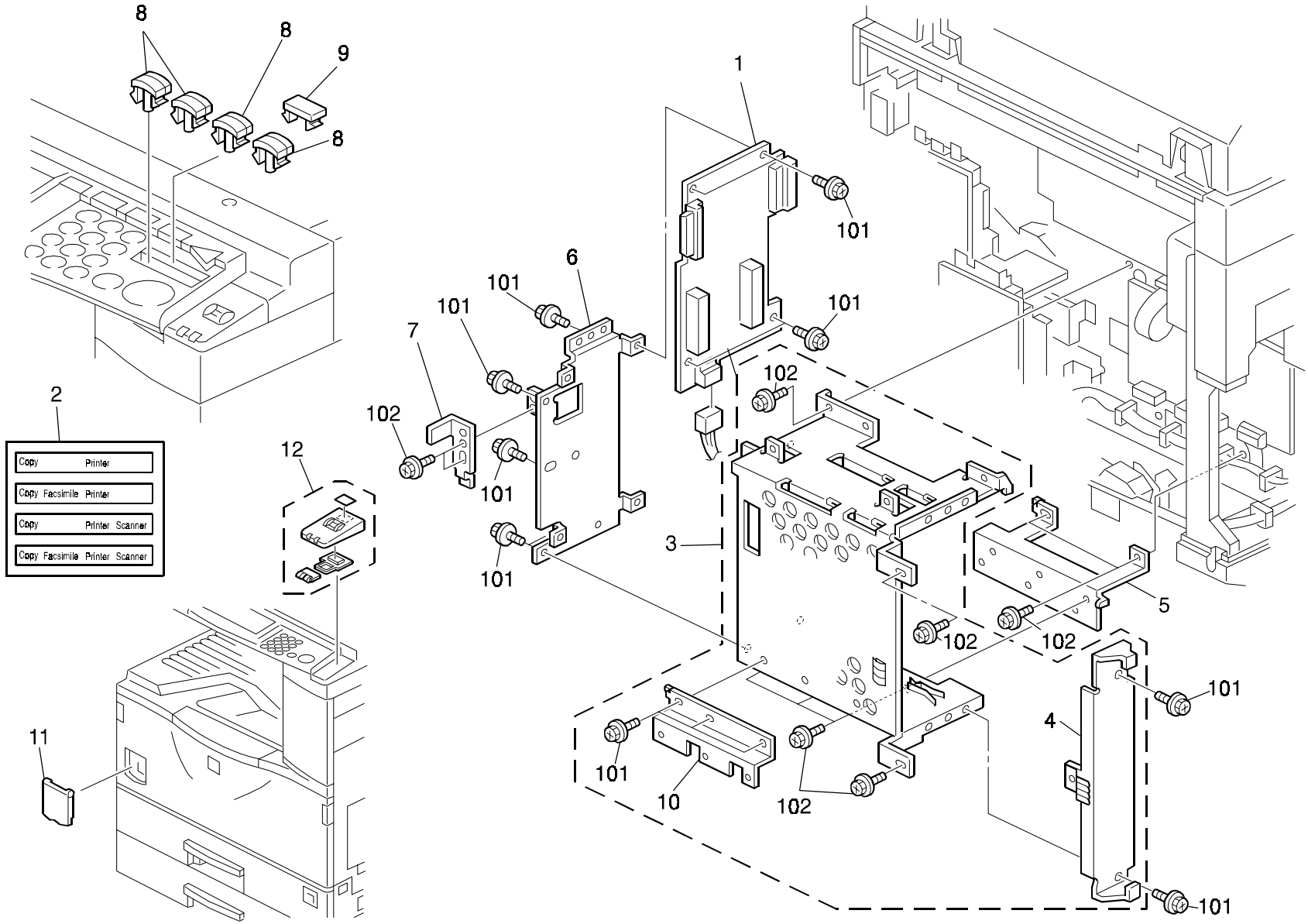
1. PRINTER CONTROL UNIT 1 (B306)

Rev. 12/05/2002

Index No.	Part No.	Description	Q'ty Per Assembly
1	B306 5160	Printer Controller	1
1	B306 5163	Printer Controller (LAN)	1
2	G038 5827	Spring Plate	1
3	A279 5813	Panel - Printer	1
4	G038 5826	Cover - IC Card	1
5	G038 5813	Connector Cover - Control Board	2
6	G687 5714	Network Interface Board	1

Index No.	Part No.	Description	Q'ty Per Assembly
101	0451 3006B	Tapping Screw - M3x6	
102	0353 0100Z	Bind Screw - M3x10	
103	0451 3008H	Tapping Screw With Washer - M3x8	
104	1407 4730	SRAM - STK12C68-W45	

2. PRINTER CONTROL UNIT 2 (B306)



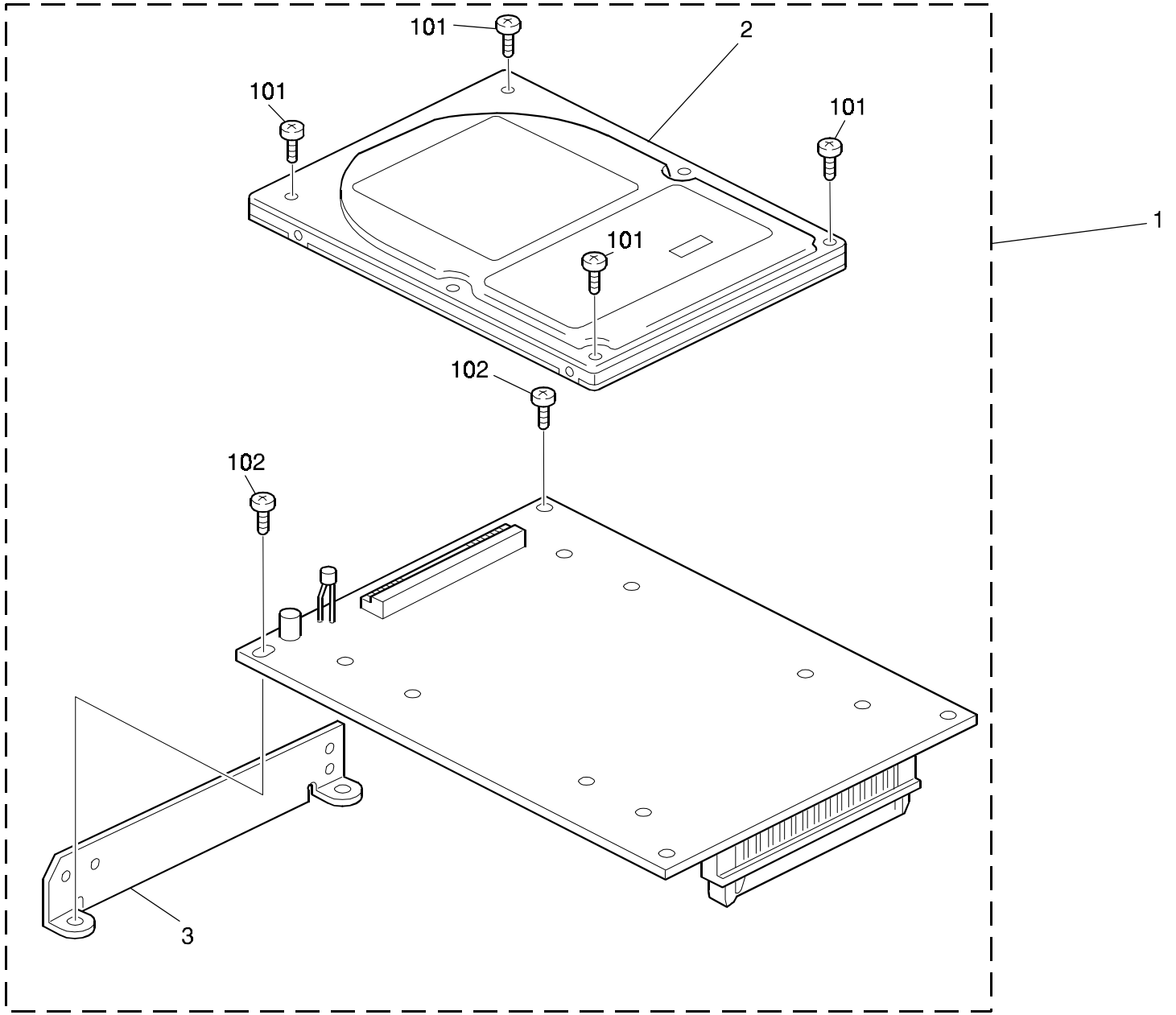
2. PRINTER CONTROL UNIT 2 (B306)

Rev. 05/18/2000

Index No.	Part No.	Description	Q'ty Per Assembly
1	A279 5335	Mother Board	1
2	B306 1464	Decal - Application Key	1
3	A279 5801	Expansion Box Ass'y	1
4	A279 5804	Cover Plate - Expansion Box	1
5	A268 5815	Stand	1
6	A279 5812	Mother Board Bracket	1
7	A279 5817	Spring Plate Bracket	1
8	A895 1451	Keytop - Application	2
9	A895 1452	Cover 1 Key	2
10	A279 5811	Stand - Expansion Box	1
11	A291 1302	Cover - Main Switch (230V)	1
12	A895 1480	Operation Switch	1

Index No.	Part No.	Description	Q'ty Per Assembly
101	0451 3006B	Tapping Screw - M3x6	
102	0802 5278	Tapping Screw - M4x10	

3. PRINTER HDD UNIT (G690)



3. PRINTER HDD UNIT (G690)

Rev. 12/06/2002

Index No.	Part No.	Description	Q'ty Per Assembly
1	G690 5731	PCB HDD - 10GB	1
2	G690 7000	HDD MK1016GAP	1
3	G690 5920	Bracket - HDD	1

Index No.	Part No.	Description	Q'ty Per Assembly
101	0313 0050B	Philips Pan Head Screw - M3X5	
102	0951 3004Z	Philips Screw With Flat Washer - M3x4	

4. PRINTER CONTROL BOARD (B306)

CAPACITOR

SYMBOL NO.	INDEX NO.
C 1	134
C 2	134
C 3	--
C 4	170
C 5	170
C 6	159
C 7	159
C 8	159
C 9	162
C 10	162

SYMBOL NO.	INDEX NO.
C 11	--
C 12	--
C 13	164
C 14	133
C 15	--
C 16	--
C 17	--
C 18	--
C 19	160
C 20	170

SYMBOL NO.	INDEX NO.
C 21	--
C 22	--
C 23	--
C 24	--
C 25	--
C 26	135
C 27	162
C 28	162
C 29	162
C 30	163

SYMBOL NO.	INDEX NO.
C 31	163
C 32	160
C 33	160
C 34	--
C 35	170
C 36	170
C 37	--
C 38	--
C 39	--
C 40	170

SYMBOL NO.	INDEX NO.
C 41	170
C 42	170
C 43	170
C 44	170
C 45	170
C 46	170
C 47	170
C 48	170
C 49	170
C 50	170

SYMBOL NO.	INDEX NO.
C 51	170
C 52	164
C 53	136
C 54	167
C 55	167
C 56	170
C 57	170
C 58	164
C 59	170
C 60	166

SYMBOL NO.	INDEX NO.
C 61	166
C 62	167
C 63	170
C 64	167
C 65	170
C 66	170
C 67	170
C 68	162
C 69	170
C 70	170

CAPACITOR

SYMBOL NO.	INDEX NO.
C 71	167
C 72	170
C 73	162
C 74	162
C 75	162
C 76	170
C 77	164
C 78	170
C 79	170
C 80	169

SYMBOL NO.	INDEX NO.
C 81	165
C 82	164
C 83	169
C 84	170
C 85	169
C 86	--
C 87	169
C 88	169
C 89	170
C 90	--

SYMBOL NO.	INDEX NO.
C 91	167
C 92	--
C 93	--
C 94	170
C 95	170
C 96	--
C 97	--
C 98	167
C 99	169
C 100	137

SYMBOL NO.	INDEX NO.
C 101	164
C 102	--
C 103	--
C 104	168
C 105	161
C 106	164
C 107	161
C 108	161
C 109	168
C 110	168

SYMBOL NO.	INDEX NO.
C 111	164
C 112	161
C 113	164
C 114	161
C 115	168
C 116	--
C 117	164
C 118	167

CONNECTOR

SYMBOL NO.	INDEX NO.
CN 501	106
CN 502	103
CN 503	104
CN 504	--
---	--
CN 506	102
CN 507	102
CN 508	--
CN 509	101
CN 510	--

SYMBOL NO.	INDEX NO.
CN 511	105
CN 512	--

4. PRINTER CONTROL BOARD (B306)

FILTER

SYMBOL NO.	INDEX NO.
FIL 1	138
FIL 2	138
FIL 3	138
FIL 4	138
FIL 5	138
FIL 6	138
FIL 7	--
FIL 8	--
FIL 9	139
FIL 10	158

IC

SYMBOL NO.	INDEX NO.
IC 1	171
IC 2	--
IC 3	--
IC 4	171
IC 5	1
---	--
IC 7	121
IC 8	118
IC 9	111
IC 10	--
IC 11	113
IC 12	114
IC 13	--
IC 14	116
IC 15	119
IC 16	112
IC 17	115
IC 18	119
IC 19	117
IC 20	117
IC 21	115
IC 22	114
---	--
IC 24	2
IC 25	114
IC 26 (Socket)	110 / 107
IC 27	--
IC 28	120
IC 29	122
IC 30	--
JP 2	158
JP 5	--
JP 18	--
JP 22	--
JP 23	--
JP 24	158
JP 25	--
JP 27	158
JP 29	--
JP 31	--
JP 32	--
JP 33	158
JP 34	149
JP 35	149
JP 36	149
JP 37	149
JP 38	149
JP 39	149
JP 40	149
JP 41	149
JP 42	149
JP 43	149
JP 44	149
JP 45	149
JP 46	158
JP 47	158
JP 48	158
JP 49	158
JP 50	158
JP 51	--

LED

SYMBOL NO.	INDEX NO.
LED 1	109
LED 2	109

REG

SYMBOL NO.	INDEX NO.
REG 5	123

OSC

SYMBOL NO.	INDEX NO.
OSC 1	124
OSC 2	--

RESISTOR

SYMBOL NO.	INDEX NO.
R 1	141
R 2	142
R 3	151
R 4	151
R 5	151
--	--
--	--
R 8	--
R 9	--
R 10	--
R 11	--
R 12	--
R 13	--
R 14	--
R 15	151
R 16	144
R 17	141
R 18	141
R 19	--
R 20	141
R 21	--
R 22	149
R 23	141
R 24	149
R 25	151
R 26	149
R 27	141
R 28	141
R 29	144
R 30	155
R 31	141
R 32	157
R 33	144
R 34	152
R 35	149
R 36	149
R 37	140
R 38	153
R 39	146
R 40	143
R 41	153
R 42	141
R 43	150
R 44	151
R 45	--
R 46	149
R 47	149
R 48	149
R 49	149
R 50	149

4. PRINTER CONTROL BOARD (B306)

RESISTOR

SYMBOL NO.	INDEX NO.
R 51	149
R 52	149
R 53	149
R 54	149
R 55	147
R 56	154
R 57	154
R 58	154
R 59	--
R 60	145

SYMBOL NO.	INDEX NO.
R 61	--
R 62	--
R 63	--
R 64	--
R 65	--
R 66	--
R 67	--
R 68	--
R 69	--
R 70	--

SYMBOL NO.	INDEX NO.
R 71	156
R 72	156
R 73	144
R 74	155
R 75	155
R 76	144
R 77	148
R 78	--
R 79	--
R 80	149

SYMBOL NO.	INDEX NO.
R 81	151
---	--
R 83	--
R 84	--
R 85	--
R 86	--
R 87	--
R 88	--
R 89	--
R 90	--

SYMBOL NO.	INDEX NO.
R 91	--
R 92	151
R 93	--
R 94	--
R 95	--
R 96	--
R 97	--
R 98	149
R 99	149
R 100	149

SYMBOL NO.	INDEX NO.
R 101	149
R 102	146
R 103	158
R 104	--
R 105	158
R 106	158
R 107	149
R 108	149
R 109	149
R 110	149

SYMBOL NO.	INDEX NO.
R 111	--
R 112	149
R 113	149
R 114	149
R 115	149

RN

SYMBOL NO.	INDEX NO.
RN 1	125
RN 2	131
RN 3	128
RN 4	128
RN 5	128
RN 6	130
RN 7	128
RN 8	131
RN 9	--
RN 10	--

SYMBOL NO.	INDEX NO.
RN 11	126
RN 12	129
RN 13	126
RN 14	129
RN 15	130
RN 16	130
RN 17	130
RN 18	130
RN 19	130
RN 20	130

SYMBOL NO.	INDEX NO.
RN 21	130
RN 22	130
RN 23	128
RN 24	128
RN 25	128
RN 26	128
RN 27	128
RN 28	128
RN 29	132
RN 30	132

SYMBOL NO.	INDEX NO.
RN 31	132
RN 32	127
RN 33	127
RN 34	127
RN 35	127
RN 36	127
RN 37	127
RN 38	127
RN 39	127
RN 40	128

SYMBOL NO.	INDEX NO.
RN 41	128
RN 42	128
RN 43	128
RN 44	128
RN 45	128
RN 46	128
RN 47	128
RN 48	128

SW

SYMBOL NO.	INDEX NO.
SW 1	108
SW 2	--

4. PRINTER CONTROL BOARD (B306)

Index No.	Part No.	Description	Q'ty Per Assembly
*	B306 5160	Printer Controller	1
*	B306 5163	Printer Controller (LAN)	1
1	G038 5300	IC - ASIC Rocky-R	1
2	G038 5352	IC - FONT 8MBIT EXP	1

Index No.	Part No.	Description	Q'ty Per Assembly
101	1102 6019	Connector - FCN685J036-I/YA	
102	1102 7358	Connector - 80P	
103	1102 7585	DIMM Connector - 93764-51872	
104	1102 7697	Connector - TX24-60R-LT-H1	
105	1102 8153	Connector - FCN-568P068-G/05	
106	1102 8189	DIMM Connector - 54534-1440	
107	1104 0588	Dip Socket - 28P	
108	1204 2368	Dip Switch - DSS804	
109	1403 0953	LED SML-310MT	
110	1407 4730	SRAM STK12C68-W45	
111	1407 4786	CMOS IC - TC74ACT273F	
112	1407 4876	CMOS IC - 74VHC244 TSSOP	
113	1407 4918	CMOS IC - 74VHCT04 TSSOP	
114	1407 4919	CMOS IC - 74VHCT244 TSSOP	
115	1407 4922	CMOS IC - 74VHCT374 TSSOP	
116	1407 5040	IC - SN74LVC161284DL	
117	1407 5087	CMOS IC - SN74LVCH16245ADGG	
118	1407 5104	IC - UPD30210GD-167-MBB	
119	1407 5125	Flash Memory - MBM29P1160TD-75pFTN	
120	1407 5164	IC - W166G	
121	1407 5174	CMOS IC - SN74LVC04APW	
122	1408 0611	IC - 3771	
123	1408 1446	IC - CS-5203-3DP3	
124	1503 0913	Crystal Oscilator - 63.90959mhz	
125	1601 7752	Resistor Array - 10K Ω ±5%	
126	1601 7753	Resistor Array - 47 Ω ±5%	
127	1601 7760	Resistor Array	
128	1601 7867	Resistor - 33 Ω ±5% 1/16W	
129	1601 7869	Resistor Array - 1.2K Ω ±5% 1/16W	
130	1601 7871	Resistor Array - 68Ω ±5% 1/16W	
131	1601 7892	Resistor Array - 120Ω ±5% 1/16W	
132	1601 7895	Resistor Array - 180Ω ±5% 1/16W	
133	1604 4333	Capacitor - 100µF±20% 10V	
134	1604 4428	Capacitor 100µF20% 16v	
135	1604 4692	Capacitor - 220uF ±20% 16V	

Index No.	Part No.	Description	Q'ty Per Assembly
136	1605 0912	Capacitor - 0.082µF±10% 25V	
137	1605 0989	Capacitor - 0.22mF +80,-20% 16V	
138	1607 0978	Inductor - BLM21P300SPB	
139	1607 1161	Filter - NFM39R12C223	
140	1630 4100	Resistor - 10 Ω ±5% 1/16W	
141	1630 4103	Resistor - 10KΩ ±5% 1/16W	
142	1630 4104	Resistor - 100 Ω ±5% 1/16W	
143	1630 4121	Resistor - 120 Ω ±5% 1/16W	
144	1630 4122	Resistor - 1.2K Ω 5% 1/16W	
145	1630 4124	Resistor - 120K Ω ±5%1/16W	
146	1630 4181	Resistor - 180 Ω ±5% 1/16W	
147	1630 4221	Resistor - 220 Ω ±5% 1/16W	
148	1630 4222	Resistor - 2.2K Ω ±5%	
149	1630 4330	Resistor - 33 Ω ±5% 1/8W	
150	1630 4390	Resistor - 39 Ω ±5% 1/16W	
151	1630 4470	Resistor - 470 Ω ±5% 1/16W	
152	1630 4472	Resistor - 4.7KΩ ±5% 1/16W	
153	1630 4519	Resistor - 5.1Ω ±5% 1/16W	
154	1630 4560	Resistor - 56Ω ±5% 1/16W	
155	1630 4680	Resistor - 68 Ω ±5% 1/16W	
156	1630 4681	Resistor - 680 Ω ±5% 1/16W	
157	1630 4820	Resistor - 82 Ω ±5% 1/16W	
158	1634 0000	Resistor - 0 Ω 1/16W	
159	1644 0220	Capacitor - 22µF±20% 10V	
160	1644 1100	Capacitor - 10µF±20% 16V	
161	1660 2220	Capacitor - 22pF ±5% 50V	
162	1660 2221	Capacitor - 220pF +80-20% 50V	
163	1660 2330	Capacitor - 33pF - ±5% - 50V	
164	1660 2470	Capacitor - 47pF ±5% 50V	
165	1660 2471	Capacitor - 470pF - ±5% - 50V	
166	1660 2680	Capacitor - 68pF ±5% 50V	
167	1660 4102	Capacitor - 1000pF ±10% 50V	
168	1660 4222	Capacitor - 2200pF - ±10% - 50V	

Index No.	Part No.	Description	Q'ty Per Assembly
169	1660 6103	Capacitor - 10000pF - +80%-20%, 50V	
170	1660 8104	Capacitor - 0.1µF+80-20% 25V	
171	1907 0007	SDRAM 64M 1MX16X4 100MHZ G3	

PRINTER OPTION B306/G690
PARTS INDEX

This section instructs you as to the number and names of parts on this machine.

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B306 5163	Printer Controller (LAN)	3- 1
B306 5163	Printer Controller (LAN)	11- *

Part No.	Description	Page and Index No
B306 1464	Decal - Application Key	5- 2
B306 5160	Printer Controller	11- *
B306 5160	Printer Controller	3- 1
B306 5163	Printer Controller (LAN)	3- 1
B306 5163	Printer Controller (LAN)	11- *
G038 5300	IC - ASIC Rocky-R	11- 1
G038 5352	IC - FONT 8MBIT EXP	11- 2
G038 5813	Connector Cover - Control Board	3- 5
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G690 5714	PCB HDD - 1.6GB	7- 1
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Part No.	Description	Page and Index No.
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A291 1302	Cover - Main Switch (230V)	5- 11
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Part No.	Description	Page and Index No
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1102 6019	Connector - FCN685J036-I/YA	11-101
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1630 4222	Resistor - 2.2K Ω ±5%	11-148
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1630 4470	Resistor - 470 Ω ±5% 1/16W	11-151
1630 4472	Resistor - 4.7KΩ ±5% 1/16W	11-152
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1630 4681	Resistor - 680 Ω ±5% 1/16W	11-156
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1660 2680	Capacitor - 68pF ±5% 50V	11-166
1660 4102	Capacitor - 1000pF ±10% 50V	11-167
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1907 0007	SDRAM 64M 1MX16X4 100MHZ G3	11-171

TECHNICAL SERVICE BULLETIN

BULLETIN NUMBER: B306 – 001 **03/27/2000**

APPLICABLE MODEL:

GESTETNER – PRINTER CONTROLLER for 3222/3227
RICOH – PRINTER CONTROLLER for AFICIO 220/270
SAVIN – PRINTER CONTROLLER for 9922DP/9927DP

Note: This copy is intended as a master original for reproduction of additional bulletins.

SERVICE MANUAL

SUBJECT: SERVICE MANUAL - INSERT

GENERAL:

The Service Manual pages listed below must be replaced with the pages supplied. Each bulletin package contains 1 set of replacement pages.

PAGES:

The revised areas have been highlighted by an arrow ⇒.

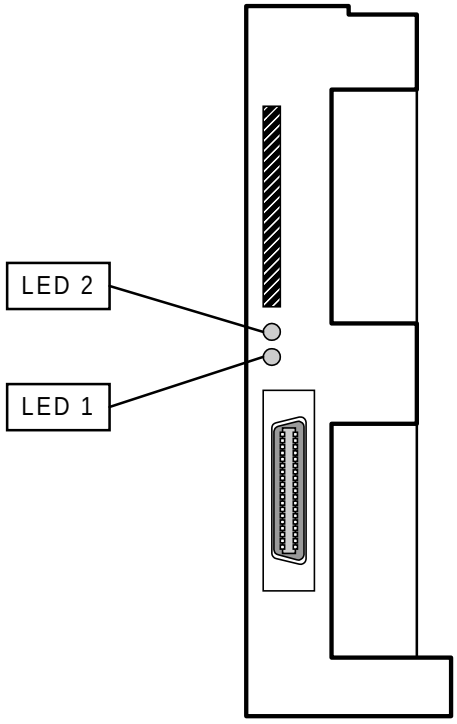
- B306 6-2 Updated Information (Printer Controller Error Conditions)

Code	Description	Required Action
1Cxx	Option bus B (CN507) error	Check the connection to the optional component at CN507. Try replacing the optional NIB or HDD.
2100	NIB self test failed.	Turn off the machine and turn it back on. Replace the NIB if this error is frequent.
21xx	NIB error	
2501	The data in the PS DIMM is damaged.	Replace the PS DIMM if this error is frequent.
2508	The data in the IC card is damaged.	Reprogram the IC card and try again.
⇒ 3003 or 3004	A damaged cluster was found on the HDD.	The damaged cluster is automatically marked as “bad”. If this error is frequent, format the HDD.
47xx	Controller ASIC error.	Replace the controller.

6.3 LED DISPLAY

6.3.1 LOCATION

The controller uses two LEDs to display error status even while the LCD message is not active.



TECHNICAL SERVICE BULLETIN

BULLETIN NUMBER: B306 - 002 **05/17/2000**

APPLICABLE MODEL:

GESTETNER – PRINTER CONTROLLER for 3222/3227
RICOH – PRINTER CONTROLLER for AFICIO 220/270
SAVIN – PRINTER CONTROLLER for 9922DP/9927DP

Note: This copy is intended as a master original for reproduction of additional bulletins.

SUBJECT: HDD ERROR

BACKGROUND:

This bulletin is to inform you of the possibility of compatibility issues with the Printer Hard Disk Type 185 (G690). The production of 1.6 GB Hard Disk Drives (HDD) will be discontinued in March 2000 and a new 6.0 GB HDD will be used in production starting in April 2000. When the new style 6.0 GB HDD is installed in the machine using Controller Firmware prior to version 1.2.9, an error may occur.

NOTE: *Controller Firmware has been modified from January 2000 production, therefore these B306's are compatible with both the old style 1.6 GB and the new style 6.0 GB Hard Disk Drives.*

SYMPTOM:

The B306 may not be able to detect the HDD during the power on Self-Diagnostic Test. A SC2001 3003 (HDD Error) will be displayed.

TEMPORARY SOLUTION:

Turn the Main Switch off and then on. If the problem persists, try turning off and on again. Once the machine detects the HDD properly (No error message is displayed), there are no problems related to the HDD of the B306.

PERMANENT SOLUTION:

Upgrade the controller firmware with version 1.2.9 or later.

The Controller Firmware revision C (file name B306_134.EXE) can be downloaded through the Ricoh Technical Services FTP Site http://tsc.ricohcorp.com.

NOTE: *Refer to Facts Line Bulletin # FL002 for more information about the FTP Internet Web Site.*

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TECHNICAL SERVICE BULLETIN

BULLETIN NUMBER: B306 - 003 **05/17/2000**

APPLICABLE MODEL:

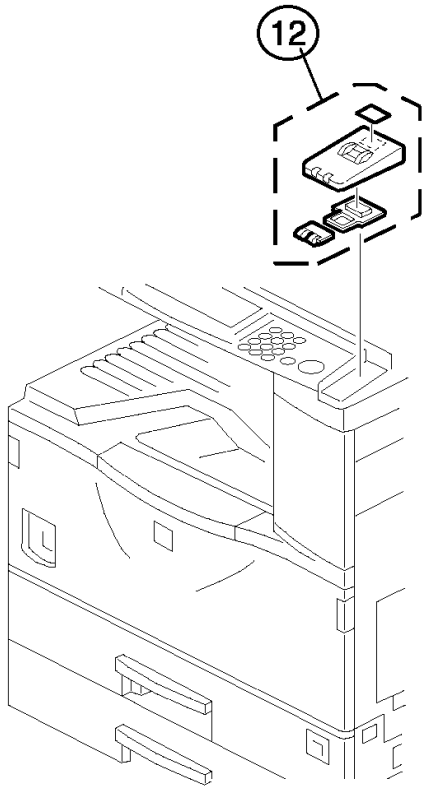
GESTETNER – PRINTER OPTION for 3222/3227
RICOH – PRINTER OPTION for AFICIO 220/270
SAVIN – PRINTER OPTION for 9922DP/9927DP

SUBJECT: OPERATION SWITCH

Note: This copy is intended as a master original for reproduction of additional bulletins.

GENERAL:

The part number and description for the Operation Switch were incorrect in the Parts Catalog. The following part correction is being issued for all B306 Parts Catalogs.



				REFERENCE	
OLD PART NO.	NEW PART NO.	DESCRIPTION	QTY	PAGE	ITEM
A9851480		Operation Switch Cover	1→0	5	12
	▶ A8951480	Operation Switch	0→1	5	12

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